

UPPER COLUMBIA – NASON CREEK SPRING CHINOOK

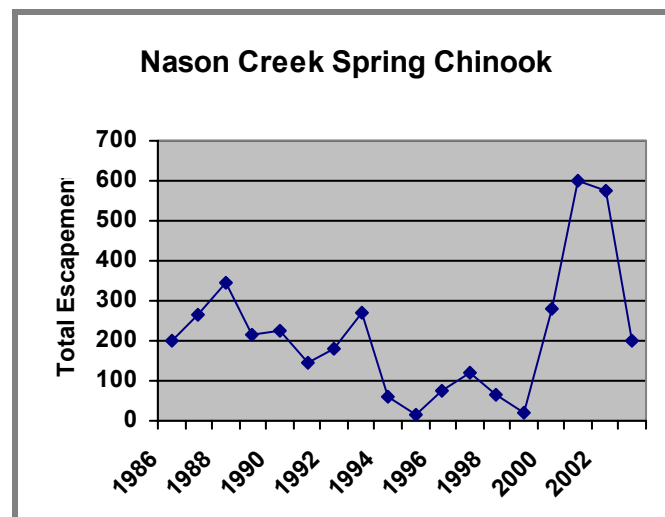
STOCK STATUS

1992 STATUS Depressed	2002 STATUS Depressed
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STOCK STATUS RATING DATA

USEFULNESS FOR RATING STOCK STATUS: Fair

YEAR	TOTAL ESCAPEMENT
1986	202
1987	267
1988	347
1989	216
1990	227
1991	147
1992	178
1993	271
1994	59
1995	15
1996	73
1997	121
1998	64
1999	18
2000	278
2001	598
2002	576
2003	202



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Data are total escapement estimates based on redd counts in Nason Creek.

Although escapements increased in 2000 and 2001, they were low in most of the years from 1986 through 1999. Stock status is rated **Depressed** in 2002 because of **chronically low** escapements.

STOCK DEFINITION

Nason Creek spring Chinook were identified as a stock based on their distinct spawning distribution.

SPAWNING DISTRIBUTION: Spawning takes place throughout the mainstem Nason Creek.

SPAWNING TIMING: Spawning generally occurs from early August to mid-September.

GENETIC ANALYSIS: Allozyme analysis has shown that Nason Creek and Chiwawa (both Wenatchee River tributaries) spring Chinook are not significantly different from one another. However the two stocks together are genetically distinct from other Upper Columbia spring Chinook stocks (WDF and WDW 1993).

STOCK ORIGIN

This is thought to be a **native** stock with **wild** production. However, the stock may have been affected by releases of non-native spring Chinook into the Wenatchee River basin during the Grand Coulee Fish Maintenance Project (1939 to 1943). Adult spring Chinook representing a mixture of upper Columbia spring Chinook stocks were collected at Rock Island Dam were released into Nason Creek to spawn naturally (Marshall et al. 1995).